

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/26/00

Date Received: 04/20/00

Project: Metro Self Monitor, PO# M63954

Date Extracted: 04/24/00

Date Analyzed: 04/25/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M63554 004103-01	0.36	0.09	0.07	0.10
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 04/26/00

Date Received: 04/20/00

Project: Metro Self Monitor, PO# M63954

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 004078-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.74	0.81	9	0-20
Copper	mg/L (ppm)	0.55	0.54	2	0-20
Nickel	mg/L (ppm)	0.71	0.80	12	0-20
Zinc	mg/L (ppm)	0.08	0.08	0	0-20

Laboratory Code: 004078-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.74	115	119	80-120	3
Copper	mg/L (ppm)	5	0.55	97	99	80-120	2
Nickel	mg/L (ppm)	10	0.71	113	121	80-120	7
Zinc	mg/L (ppm)	5	0.08	127 vo	137 vo	80-120	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	112	111	80-120	1
Copper	mg/L (ppm)	5	109	108	80-120	1
Nickel	mg/L (ppm)	10	114	114	80-120	0
Zinc	mg/L (ppm)	5	119	118	80-120	1

vo - The value reported fell outside the control limits established for this analyte.

004103

4/20/00

C.S.

B12

FRIEDMAN & BRUYA, INC.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282

## SAMPLE CHAIN OF CUSTODY

Send Report To:

Company

Address

City, State, Zip

Phone #

Alaska Copper Works

Contact

Gerald A Thompson

628 Portland OR

Seattle WA

206-382-8379

FAX #

206-382-4309

Date

4-20-00

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

matro self monitor

m 63954

SAMPLERS (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION



Dispose after 30 days



Return Samples



Call for Instructions

Sample #

Date/Time  
SampledType of  
Sample# of  
JarsLab  
Sample #Analyses  
Requested

01

m63954

4/20/00 12:20

H2O

1

CH Cu Ni Zn

SIGNATURE

PRINT NAME

COMPANY

Date

Time

Relinquished by:

Received by:

Relinquished by:

Received by:

Gerald A. Thompson

ACW

4/20/00

1:18

Tony Elias

Friedman &amp; Bruya

4/20/00

1:18

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

April 26, 2000

**DUPLICATE COPY**

**INVOICE #00ACU0426-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M63954 - Results of testing requested by  
Gerald A. Thompson for material submitted on April 20, 2000.

1 sample analyzed for Total Chromium,  
Copper, Nickel, and Zinc  
by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID (b) (6)



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

**April 26, 2000**

**Gerald A. Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134**

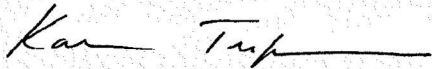
**Dear Mr. Thompson:**

**Included are the results from the testing of material submitted on April 20, 2000 from your Metro Self Monitor, PO# M63954 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.**

**We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.**

**Sincerely,**

**FRIEDMAN & BRUYA, INC.**



**Kate Trafton  
Project Manager**

**Enclosures  
ACU0426R.DOC**